From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: wb8ygg@juno.com (Bradley S. Mitchell)
Subject: [8633] 38 S' Internal Keyer (AKA TiCK)
Message-ID: <19970112.130526.12239.0.WB8YGG@juno.com>

Ok, on Ori's request, here is the detail on the keyer
that was designed INTO the 38 Special's ARTWORK.

++
The TiCK keyer is the worlds smallest Iambic Keyer,
being an 8 Pin Dip Package.
++

Sometime during the 38S design process,
Ori and I got talking about inexpensive transceivers,
and the like. Well, Ori was near the end of the design, and
under penalty of QRP death, he disclosed the 38S idea.

I thought it was great! and we talked for a bit about it,
and then the light went off in my head.. Hey Embedded Research,
AKA Gary, N2JGU, and Myself (Brad WB8YGG) had completed
designing the TiCK keyer chip, and were waiting for production
parts to start shipping them. So I suggested that Ori might
design the keyer INTO the 38-S artwork. Well, the first message from
Ori was not related, so I thought that he had no interest..

Then I got a message titled.
++
TiCKing 38 Special
++

 from Ori.
This seemed that he was interested.

So Ori, Gary and I started talking about the concept, and it seemed
like a good idea. So once we finally got a sample to send off to Ori,
we did.
Ori got the chip, and made some good suggestions. So Gary and I
went back to the drawing board for the few changes that would make
it work even better in the 38-S, but still be a generic keyer.

We made the modifications, tested it out, and shipped another
sample to Ori. According to the testers, the keyer would be perfect now.

But the story does not end there. The 38 Special will start shipping
soon, and we got the TiCK chips just in time to start shipping as well.

So the timing was incredible.

SO for the 38 special's implementation of the TiCK, there are no parts required that you cannot get at Radio Shack.

In fact, here is the pinout of the chip:
++
Pin 1   VCC (5 Volts for the 38-S)
Pin 2   No Connect.
Pin 3   Sidetone/feedback , Nominally 625 Hz.
Pin 4   Pushbutton Input (Normally open switched to ground)

     Pin 4 input sleects all keyer features (see below).

Pin 5   Keyline output (positive when keyed)
     I think Ori is using a pn2222 to invert it on the rig.

Pin 6   Dah input from paddles
Pin 7   Dit input from paddles
Pin 8   Ground.
++

TiCK Features:
++
Mode A/B Iambic: B is default
Tune Mode : constant tune your transmitter, tap button or paddle to turn off.
Speed adjust via pushbutton and paddles
Paddle select, for left or right handing the paddles.
Sidetone on/off   Default: Sidetone on.
Straight Key mode: So if you want to use a straight key, or a contest keyer
         with the rig.

Also, the TiCK chip sleeps, except when keyed , so this means that
#1. Idle current draw of about 1micro amp!
#2 There is NO problem with TiCK's internal Oscillator generating
     Receiver noise, because the chip is asleep (clock stopped) during
     Receive.
++

++
Ori Tells me that the 38 special Instructions goes into explecit detail on how to
put the TiCK on the board, etc.
++

Our web page is
++
Embedded Research
http://www.vivanet.com/~gmdsr
e-mail
gmdsr@vivanet.com
++

     The TiCK chip is $5.00 PPD to continental US.

73 Gary, N2JGU and Brad WB8YGG
Embedded Research

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: wb8ygg@juno.com (Bradley S. Mitchell)
Subject: [8637] 38 S' Internal Keyer (AKA TiCK)
Message-ID: <19970112.131927.12239.2.WB8YGG@juno.com>

Sorry for the Bandwidth, but forgot our address
on the previous E-Mail, which I have added to the end of this
post.

==
     Ok, on Ori's request, here is the detail on the keyer
that was designed INTO the 38 Special's ARTWORK.

++
The TiCK keyer is the worlds smallest Iambic Keyer,
being an 8 Pin Dip Package.
++

     Sometime during the 38S design process,
Ori and I got talking about inexpensive transceivers,
and the like. Well, Ori was near the end of the design, and
under penalty of QRP death, he disclosed the 38S idea.

     I thought it was great! and we talked for a bit about it,
and then the light went off in my head.. Hey Embedded Research,
AKA Gary, N2JGU, and Myself (Brad WB8YGG) had completed
designing the TiCK keyer chip, and were waiting for production
parts to start shipping them. So I suggested that Ori might
design the keyer INTO the 38-S artwork. Well, the first message from
Ori was not related, so I thought that he had no interest..

Then I got a message titled.
++
TiCKing 38 Special
++

 from Ori.
This seemed that he was interested.

So Ori, Gary and I started talking about the concept, and it seemed like a good idea. So once we finally got a sample to send off to Ori, we did.
Ori got the chip, and made some good suggestions. So Gary and I went back to the drawing board for the few changes that would make it work even better in the 38-S, but still be a generic keyer.

     We made the modifications, tested it out, and shipped another sample to Ori. According to the testers, the keyer would be perfect now.

     But the story does not end there. The 38 Special will start shipping soon, and we got the TiCK chips just in time to start shipping as well.
So the timing was incredible.

SO for the 38 special's implementation of the TiCK, there are no parts required that you cannot get at Radio Shack.

In fact, here is the pinout of the chip:
++
Pin 1   VCC (5 Volts for the 38-S)
Pin 2   No Connect.
Pin 3   Sidetone/feedback , Nominally 625 Hz.
Pin 4   Pushbutton Input (Normally open switched to ground)

     Pin 4 input sleects all keyer features (see below).

Pin 5   Keyline output (positive when keyed)
     I think Ori is using a pn2222 to invert it on the rig.

Pin 6   Dah input from paddles
Pin 7   Dit input from paddles
Pin 8   Ground.
++

TiCK Features:
++

Mode A/B Iambic: B is default
Tune Mode : constant tune your transmitter, tap button or paddle to turn off. Speed adjust via pushbutton and paddles
Paddle select, for left or right handing the paddles.
Sidetone on/off   Default: Sidetone on.
Straight Key mode: So if you want to use a straight key, or a contest keyer with the rig.

Also, the TiCK chip sleeps, except when keyed , so this means that
#1. Idle current draw of about 1micro amp!
#2 There is NO problem with TiCK's internal Oscillator generating
     Receiver noise, because the chip is asleep (clock stopped) during
     Receive.
++

++
Ori Tells me that the 38 special Instructions goes into explecit detail on how to put the TiCK on the board, etc.
++

Our web page is
++
Embedded Research
http://www.vivanet.com/~gmdsr
e-mail
gmdsr@vivanet.com
++

     The TiCK chip is $5.00 PPD to continental US.
----

73 Gary, N2JGU and Brad WB8YGG

Embedded Research
P.O. Box 92492
Rochester, NY
14692

--------- End forwarded message ----------

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "T. PETTIBONE" <tpettibo@NMSU.Edu>

Subject: [8586] 40-9er sold!
Message-ID: <Pine.A41.3.95.970111183503.3652A-100000@hector.NMSU.Edu>

My, oh, my, it's sold. This list never ceases to amaze me. I'll look around the shack to see what else I may have. (Don't worry Chuck, I won't sell your Tucker Tuner!)

Tim AB5OU

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Paul Stroud <aa4xx@amsat.org>
Subject: [8622] 80M Roundtable
Message-ID: <32D8F8BC.5329@amsat.org>

Hi Gang,

The Knightlites Roundtable saw a flurry of activity last Sunday night, Jan. 5th, 1997. It was good to hear QRP'ers from throughout the Eastern USA and Canada.

Here are some comments from the soapbox: "160M is the word for tonight" (AE4IC), "Running a straight key tonight" (W8KC), "Hearing a ton of stations on the net with my 40M loop" (WD9CTB), "Using vintage QRP with Viking Adventurer at 5W" (W3KC), "Running straight key tonight, and can actually hear you!" (WB4LZQ), "Football season is nearly over so will see you often now" (AC4ZO), "Hope to hear the Knights during the ARCI SSB Sprint next Sunday" (N7RI)), "QRN peaking at S9--Have a great New Year" (K1CL), "Pop, Mom, and Li'l Goober FB--Hope all Knights can do fun QRP this year" (WA4NID) "Running one watt here tonight" (WJ4P).

The Knights invite you all to join us each Sunday night at 9:30PM EST (0230Z) on 3710 KHz.

In addition to the stations listed below, there was one station from 7-Land who was trying to make it in. K3QIO copied him as possibly KC7S. We probably would have been able to reel him in if the QRN levels weren't so high. you guys out West keep trying; So far, we've heard from TX, CO, MT, MN, AK, LA, MO, and AR out your way.

Here's a list of stations who joined us last Sunday night:

(Please send any corrections to aa4xx@amsat.org)

W3AW	Kirk	Canton,	OH		559	
K3QIO	Jim	Wilmington,	DE	5W	599+10	
AE4IC	Bob	Greensboro,	NC		599	
N2CX	Joe	Brooklawn,	NJ		439	
KF2PH	Nick	Patchogue,	NY		339	
W1VT	Zack	Newington,	CT		449	
W8KC	Paul	Oakland Township,	MI		449	
AA3EJ	Dave	Philipsburg,	PA		339	
WD9CTB	Jerry	Floyd Knobs,	IN	5W	569	40M Loop!
WJ2V	Preston	Lawrence,	NY		339	
W3KC	Chas	Kensington,	MD	5W	579	Viking Adventurer
WB4LZQ	Kim	Piedmont,	SC	5W	579	
AC4ZO	Jeff	Cary,	NC	8W	599+20	
N7RI	Ralph	Charlottesville,	VA		579	
N3GO	Gary	Raleigh,	NC	2.5W	599+20	
VE3JC	John	Delaware,	ON	5W	579	IC-735
K1CL	Chuck	Chelmsford,	MA		339	
KA3IVB	Curt	Oakdale,	PA	5W	579	
KF8EE	Ted	Loveland,	OH	5W	439	Argo II, LW ant
KC4O	Roy	Prestonsburg,	KY	1W	569	
WB0CLD	Bill	St. Charles,	MO	5W	339	
WA4NID	Dave	Durham,	NC		599	
WJ4P	Randy	Summerville,	SC	1W	599	Paragon
AA4XX	Paul	Raleigh,	NC	5W	(NCS)	Dipole at 60'

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>
Subject: [8614] A Mosfet PA
Message-ID: <853065905.63577.0@gqrpclub.demon.co.uk>

I am uploading a file to my web page on a MOSFET PA stage, suitable for all bands, 5 watts. Also more links.
Do let me know of any failed links on my two sites, I have had to edit all of them for the new URLs, and there could be the odd bug!

----------72/3 de Frank G3YCC ----------
GQRP CLUB 042
QRP WEB SITES: http://www.gqrpclub.demon.co.uk
 http://www.geocities.com/CapeCanaveral/5179

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997

From: wylde@nccn.net (Grover, K7TP)
Subject: [8630] And now this editorial reply:
Message-ID: <v02130500aefec3733779@[205.139.74.180]>

ANNOUNCER: And now with a rebuttal to yesterday's editorial is O. F. Ham.

HAM: What's all this nonsense about conjugal mating? People already have that stuff figured out. There's no need . . . (interrupted)

ANNOUNCER (Off Screen): That's "conjugate matching".

HAM: (Thoughtful pause) Oh! Never mind.

[with apologies to Saturday Night Live]

Grover
K7TP

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: ka7you@juno.com (rodney j johnson)
Subject: [8595] Antenna question
Message-ID: <19970111.193305.9142.8.KA7YOU@juno.com>

Some time ago an oldtimer gave me plans for a phased pair of delta loops (apex up) for 40Meters, which were spaced about 0.2 wavelengths apart. There was phasing switch to do direction reversal, but I don't care about that for this discussion. I can hang the wire loops from a rope at 60 feet with no problem.

I'm looking for a more effective antenna for working to the east/southeast on 30 and 40 meters

My question centers around the fact that I live at about 800 fet elevation right on the west slope of a fairly steep 2500 foot hill. (Out west here it isn't a mountain until it's 3000+ feet high) I have a nearly unobstructed RF horizon to the south. If I orient this antenna to look east (into the hill), have I gained anything? Or would I be better off with my ladderline fed 102' dipole at 60 feet? It is oriented NE to SW.

Getting height is no problem here, and baring another ice storm, I have over 130 feet to supports in almost any direction-much farther if I go through trees :>). The only big restriction is the power wires at the road (east of me) about 130 feet away.

I'm thinking of a pair of loops, each having a 30M loop inside a 40M one and fed with the same feedline ala multiband quads, and having it

fixed to the east. If I space them at about 25 feet apart, it is roughly 2/10 wavelength on 40 meters and 1/4 wavelength at 30 meters. I think this should yield some directional gain gain on each band.
     Is this practical? I'm not sure about how the phasing lines will work on the 30M band, if I cut them for 40M. Would I be better off to split the difference with the phasing lines? Two elements and a phasing line with a switch will make it bi-directional on one band-right? What happens on the other band? And finally, would I be better off just with a single double-loop driven element and add a third set to make it a 3 element delta loop configuration ?
    Now if this isn't fodder for cannons , I'm fresh out of keystrokes!
Thanks for all the help on other questions in the past.
7 3,
Rod Johnson KA7YOU near Issaquah, Wa.

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "David M. Dabay" <kd3pc@usit.net>
Subject: [8624] Any QRP in CA activities for the week of Jan 27??
Message-ID: <199701121524.KAA24237@smtest.usit.net>

I will be in San Jose (new job training) the week of Jan 27th, and was wondering if there are any QRP related activities (or places) scheduled? I don't have my work schedule yet, but will next week.

TIA

dave dabay

Dave Dabay KD3PC QRP-L #365 Race at ELK CREEK DRAGWAY

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: bump@redrose.net
Subject: [8589] Cascade Goof-up + Desoldering ICs?
Message-ID: <199701120231.VAA33467@nss2.CC.Lehigh.EDU>

Hi Gang,

Many thanks to all who offered advice. Got 17 comments as of this post. About half said that I should trash the chip that's in there, regardless of how I get it out (an excellent idea - don't want to do this more than one time).... and most said to no
t
 mess with solder suckers, but simply cut the old chip from the board and then

deal with each pin separately using solder wick. A few said I could just clip the old chip from the board and tack solder the new chip to the pins protruding from the board.

I'm going to get a solder sucker first and see how many of those pins I can loosen up. I can't imagine how I'd get a tool near enough to those pins to clip them. Whether I destroy the chip or not; it is history. There's no way for me to tell if it's O
K
, and for the price of the chip, I'll not take the chance I'll have to do this again! Also, don't want to use sockets here; would much rather know the chip is 'connected real good' to the circuit with more than just a mechanical connection. (I used to
h
ave to reseat the chips in the old Commodore-64 computer quite regularly.)

Will let the group know how I make out; again - thanks!

73,

Harry, KM3D

OUTLAW WIRELESS LEAGUE
QRPARCI #3875
NORCAL #1295
QRP-L #637

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: k5gq@juno.com (C M Tyler)
Subject: [8615] Coaxial traps
Message-ID: <19970112.074023.18734.0.k5gq@juno.com>

In the September '95 of CQ is an article on coaxial traps.

A computer program is available for $5 which accurately designing coalial traps.

Order   VE3ERP 3.5" disk for DOS
FROM: Radio Works, Inc
     Box 6159 Portsmouth, VA 23703
     phone 800 280-8327

Note: Information is from September '95 of CQ. This information has not been verified. (Any item or all may have changed.)

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Mike Boice <kd0fx@worldnet.att.net>
Subject: [8621] Finding stuff in Mouser's catalog
Message-ID: <1.5.4.32.19970112042835.00675cf8@postoffice.worldnet.att.net>

I've got a few transistors, etc. that I'm looking for to complete existing projects, or consider future projects. I've got an order ready for Mouser, but I can't seem to find some of these. Am I blind, or do I just not understand Mouser's listings?

Here's what I'm looking for:

J309
J310
VN10KM
any one of the following:
        LMC6022IN CMOS dual op-amp
        LMC6042IN CMOS dual op-amp
        TLC25L2C
        TLC27L2C
2N3553
MVAM108

Yeah, I know these are available elsewhere, but, like I said, I've already got an order of other stuff ready for Mouser, so I'd like to get it all there.

73,
mike KD0FX
Richland WA

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "T. PETTIBONE" <tpettibo@NMSU.Edu>
Subject: [8583] FS 40-9er Kit
Message-ID: <Pine.A41.3.95.970111170751.3770A-100000@hector.NMSU.Edu>

Well, with some trepidation I'm offering up my unbuilt 40-9er kit, version B board, put out by CQC. Have lots of documentation and I'll even throw in an Altoids box (empty-my grand kids liked the mints). Don't have time or inclination to build it as I have several other projects more demanding. Asking why I paid - $28.50 including shipping. No phone calls please. I'll take the first several responses in order of receipt for possible backup.

Tim AB5OU

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: John Small <jds@comsource.net>
Subject: [8639] FS OHR Classic
Message-ID: <1.5.4.32.19970112183422.0066ee30@comsource.net>

I have the urge to build another rig and am selling my OHR Classic with keyer for $175.

72

John W9FHA

John Small
8505 Whetstone Road
Evansville, IN 47711
Tel (812) 867-7058

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "Wilford D. Lindsey" <70511.3041@CompuServe.COM>
Subject: [8654] FS:OHR 40/20 Classic
Message-ID: <970112235105_70511.3041_IHD79-1@CompuServe.COM>

Gang:

Have FS excellent OHR Classic Dual-Bander 40/20 QRP transceiver. Covers *both* 20 and 40 metres. Completely assembled, ready-to-go. No building required.

Very quiet, sensitive, selective. Has RIT, plenty of audio. Would be easy to transport to the field due to its light weight and compact size/shape. Pristine condition, absolutely unmarked case.

->Includes the OHR built-in keyer. Also has jack for manual key or outboard keyer.

Price = only $170, including UPS shipping anywhere in Continental USA.

72/73,
--Doc/K0EVZ QRP-L #861

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Jim Hydzik <congress@magpage.com>
Subject: [8612] FSFD (50 States) Update for Jan 11
Message-ID: <199701121034.FAA13942@alaska.magpage.com>

Hello ALL,   (QRP activity info at http://www.dancris.com/~ki7mn)

The 50 States In 50 Days (FSFD) activity started Jan 01 and runs through
Feb. 20. Below is a the schedule of States for the next few days. We will
attempt to provide digested schedules of states/times/bands/freqs. to help
reduce message traffic to the reflector. Typically, only 1 message per day.

Jan. 12 Sunday IDAHO AB7TK (ex-WB5QMP), Randy

1600-1800		UTC	7.038
2000-2100		UTC	14.058
2300-0200		UTC	7.038
0400-0600	MON>	UTC	3.560

Jan. 13 MONDAY ILLINOIS N9HH, Bill

1300-1330		UTC	14.060 +2/-5
1330-1400		"	10.108 +/-2
1500-1530		"	14.060
1530-1600		UTC	10.108
0100-0300	(TU)	UTC	7.037

If band dead, look on 7.108 at 0130 UTC

Jan. 14 Tuesday INDIANA N9DD, Tom

1800-1930		UTC	14.059
2000-2130		"	10.115
0130-0300	WED>	"	7.042
0330-0500	"	"	3.562

```
-------------------------------------------------------------------
Jan. 15  Wednesday IOWA KD0CA, Jerry 1230-1345      UTC   3.559
                                     0100-0300 Thur-UTC   7.042
                                     0300-0330   "  UTC   7.039

-------------------------------------------------------------------
Jan. 16  Thursday WISCONSIN  (substituted in place of Kansas-later)
                       WA9PWP, Paul  2300-0000      UTC   10.115
                                     0100-0300  FRI>UTC    7.037
                                     0300-0400  FRI>UTC    3.700
-------------------------------------------------------------------

Jan. 17  Friday  KENTUCKY   KC4O, Roy      TBA

-------------------------------------------------------------------

Jan. 18  Saturday  LOUISIANA #2,  K5RV, Brian    TBA  (ends at 6 PM)

   | Look at MI-QRP Contest this weekend; Info-Jan QST |
   | Start 0700 UTC 1/18/97    End  2359 1/19          |
-------------------------------------------------------------------
```

Most every sign-up came with a note saying they would go longer if busy.
Frequencies are +/- QRM & typ. may reach as far as 3-4 KHz from posted freq.

CALLING CQ: A suggestion. If we call CQ WAS or WAS QRP de K6.... etc, we give those not on QRP-L an indication of what we're doing. FSFD type calling might be too cryptic for all but ourselves. However 'FS' is fine when busy. Exchange RST, State/Province/Country, and Name. Power level is nice to know.

>ALASKA & HAWAII: Jim-AL7FS is back from Hawaii and will activate ALASKA as soon as KL7Y's 40M beam repairs are complete. Watch for Jim's postings. Thanks to him for the HI effort.
KB0ROL will also be in HAWAII between Jan. 17-25 and will post his time/freq info to the group when ready. Don't miss this double QRP HI shot.

Volunteers still needed for: WEST VIRGINIA

Anyone else want to sign-up, e-mail band/freq/time directly to:
congress@magpage.com
Thanks for all the responses/encouragement and suggestions. Lets have a blast!

Jim K3QIO Wilmington, Delaware

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: ac5am@juno.com (Robert L Stolzle)
Subject: [8648] FSFD--LA#1, AC5AM
Message-ID: <19970112.151944.7158.1.ac5am@juno.com>

Hello Everybody,

Here are the results of my efforts for the FSFD event. The bands seem to be in good shape, just a little
more noise on 80m than usual. There was a good opening on 15M about the time I was on but not
many QRP stations on, mostly the NA contesters. I had a great time on 30M
 --- what a great band.

My goal was to make 100 contacts. I was doing very good by mornings' end, but when the NA contest
started it was very difficult to get a QSO. By mid evening the only stations answering my CQ WAS was
the contesters who apparently thought I was part of their contest. By 0330Z both 80M and 160M was
wall to wall contesters so I closed down after calling CQ for over an hour without one QRP QSO.

Baring the contester problem, I had a great time and thoroughly enjoyed being the "one" to work for
a day. Had a good pile-up on 30M for a minute there.

I want to say thanks to everyone that gave me a call, I know I missed some and some I could not copy,
sorry. Thanks to Jim for doing a great job of coordinating this event. I think it is a great success already.
I would be happy to do this again, great fun, and QRP too. If it was any better I couldn't stand it. If anyone
wants a QSL card just send one and I will send one to you. No SASE necessary.

Band	Total QSO's	SPC's	comments
15M	9	8	good opening-- was looking for more CA QSO's, had one
20M	6	6	very disappointing due to NA contest
30M	20	15	two VE stns -- had a

great time here-- what a good band

40M 24 18 luckily had some time in AM before NA contest

80M 18 12 one CO2 stn (not QRP)

160M 0 0 skunked due to NA contest

Totals 77 59 (too many to list them all individually)

72/73,
Bob, AC5AM AR-QRP #23, MI-QRP #1530, NorCal-QRP #1784
--------------------QRP-ARCI #9105, NE-QRP #504 & CW FISTS #2516
" Son of a gun, we'll have big fun"------ "QRP on the Bayou....."

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "Michael Connor" <mikec@primenet.com>
Subject: [8642] http://www.xmission.com/~rossdist/price.htm
Message-ID: <199701121851.LAA04399@primenet.com>

This is a multi-part message in MIME format.

------=_NextPart_000_01BC007E.D0F49360
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Gang,
Check out the link to Ross Distributing;
He's got a ton of stuff he's trying to get rid
of.

FWIW,
Mike
NQ7K
------=_NextPart_000_01BC007E.D0F49360
Content-Type: application/octet-stream; name="price.url"
Content-Transfer-Encoding: 7bit
Content-Description: price (Internet Shortcut)
Content-Disposition: attachment; filename="price.url"

[InternetShortcut]
URL=http://www.xmission.com/~rossdist/price.htm

------=_NextPart_000_01BC007E.D0F49360--

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: KA3J@aol.com
Subject: [8629] Japanese Low Power HF Licenses
Message-ID: <970112114957_1891129554@emout14.mail.aol.com>

Does anyone have information on the Japanese ham radio license structure/classes? Specifically, I'd like to know if they have a low power (QRP) class for HF (I think they do), and if so what frequency ranges, emission modes and power are permitted. Similar information for other countries would be helpful as well. Either post or reply direct. Thanks for your help.

72/73,

Ron (KA3J)
Bethesda, MD

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Jim Hydzik <congress@magpage.com>
Subject: [8588] KANSAS, it is alive. Only WV Needed
Message-ID: <199701120147.UAA18441@alaska.magpage.com>

Hello FSFDers,

    It looks good for WA0EAF and KB0PZD in the flat state of Kansas (No Coronado Hts jokes please). Final date setting going on tonight.
       Thanks guys!!!!!

Now, I lived in Morgantown, WVa for 2 years and worked all kinds of WV-CW guys and was part of the WV winning Field Day club near Fairmont. We know you're out there.

What Say?   (Is the underground Navy installation in Morgantown still there?)

Jim K3QIO   Delaware

KI7MN: Add KS WA0EAF and KB0PZD   TKS

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "T. PETTIBONE" <tpettibo@NMSU.Edu>
Subject: [8593] KC-1
Message-ID: <Pine.A41.3.95.970111201701.12906A-100000@hector.NMSU.Edu>

Wayne:

You were right, my KC-1 trouble was the 2N7000 on the keyline. Guess it
was leaky. Got two more from Bob at Wilderness (along with a BuzzNot
kit!) Works great now. Just worked N5OT in OK during the NA contest.
You are amazing!

Tim AB5OU

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [8632] LDG Tuner Kit purchase continues
Message-ID: <Pine.3.89.9701121113.A14785-0100000@w3eax.umd.edu>

ABosulte madness, folks. I'm gonna be REALLY busy come the end of the
month...the purchase window is open until FRIDAY January 17th, 11:59:59 EST.

AT-11 auto-tuner kits $127.50 (we got 25! - normally $150)
QRP auto-tuner kits $ 85.00 (normally $100)

Prepunched, predrilled, painted, silkscreened enclosures:

     $30 and $25, respectively.

For more info, check http://www.radix.net/~ldg

For direct questions, LDG can be reached at ldg@radix.net or 410-586-2177
(in Maryland).

If ordering, I need:

1) LIST OF THINGS YOU WANT
2) UPSable ADDRESS

3) PHONE NUMBER

I'll then give you the total, including shipping, etc. You send me a check or other payment, and the order will be made shortly after the 17th. Goods are received, boxed, and shipped ASAP.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Bill Urie <burie@linknet.kitsap.lib.wa.us>
Subject: [8652] MFJ9020
Message-ID: <Pine.SUN.3.95.970112152947.4411A-100000@linknet.kitsap.lib.wa.us>

Hi: I have a MFJ 9020
20M qrp cw transceiver for sale
works great. $110 plus shipping.
Bill W7XV qrp-l #898

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Vic Rosenthal <rakefet@rakefet.com>
Subject: [8655] My OHR 100
Message-ID: <32D97A7F.6F3F@rakefet.com>

I built an OHR-100 for 20 meters (it may have been one of the very first 20-meter one built, because Dick changed the mixing scheme as a result of a problem that I had). I wanted a real wold-class radio for field day type operation, so after I took it on a couple of shakedown trips I decided it could use a) more selectivity and b) a slightly slower tuning rate.

I rebuilt it in a slightly larger box, on which I mounted an old National Velvet Vernier tuning dial, for a 6-to-1 ratio. It's a bit stiff, but that can actually be an advantage in the field; a ball drive would have turned with less effort. As a certified OF, however, I like the National dial.

Then I built an OHR SCAF filter and put it in the box. Combined with the crystal IF filter in the 100, I have all the selectivity I can use. In addition, the SCAF cleans up the audio so that it works fine with

stereo-type headphones - you have to have comfortable phones that keep your ears warm! Even though I always have the SCAF in the circuit, I included the on/off switch so that I can warm up the 100 without the extra current drain of the SCAF. BTW, the 100 is rock-solid after the first 20 minutes or so, but drifts about 2-3 kHz in that warmup period.

The only problem was the case when a strong signal comes up in the IF passband and activates the AGC, making the SCAF-ed desired signal weaker. I solved this by adding an RF (IF, really) gain control to the 100. Now, I can just back off the RF gain in such a situation. I found it was not necessary to disable the AGC in the 100, which is very nice - otherwise strong signals could cause ear damage!

Since the box was big enough, I put a 4ah gel-cell in there. That's adequate for quite a bit of operating, since the receiver plus SCAF draws only about 100 ma. I still had some room in the box, so I added a 3" speaker in order to impress my friends. The speaker was a little feeble, though, so I added an amplifier using an LM380N and a couple of resistors and capacitors. Radio shack sells a tiny PC board with pads for one DIP IC on it, and that made it very easy to do a neat job. The LM380N only takes 7 ma. when it's not driven, so I just used the NC contact on the phone jack to feed it. If I could find a phone jack with an extra set of contacts on it, I'd save even that 7 ma. by turning off it's 12v when using phones. There's more room and I could add a keyer; but I prefer my Vibroplex bug.

That's it. The box has neat little handles to protect the controls and make it easy to carry. I'm ready to F my BO next month!

In my opinion, nothing has done more to put the fun back in ham radio (for me, anyway) than the availablity of these inexpensive, great performing kits!

Vic K2VCO

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: KC7FYS@aol.com
Subject: [8617] New email address for Jonathan!!!!!!
Message-ID: <970112090157_537239923@emout15.mail.aol.com>

Hello,
This is a rather generic message that says I have changed my email address.
 Please send me the usual volumes of warm and caring email to:
"kc7fys@sn2.so-net.or.jp"
Thank you,

Jonathan

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: n5zgt@swcp.com (Brian Mileshosky)
Subject: [8600] New Mexico Swapfest - January 25
Message-ID: <199701120445.VAA05029@kitsune.swcp.com>

Hello Fellow QRPers,

  SPREAD THE WORD! Announce it on nets and at meetings!

  It's time for a Swapfest in Albuquerque, New Mexico! Here is the information:

WHAT: Albuquerque Tailgate Swapfest (Hamfest)
WHEN: Saturday, January 25th
TIME: 7:30 AM - ???
WHERE: Del Norte High School parking lot (Northeast corner of Montgomery &
        San Mateo)
HOW: Any way you can!
ADMISSION & PARKING: Free
TALK-IN FREQ: None yet. However listen to either the 147.15 (+, No PL),
              146.90 (-, 67 Hz PL) or 147.06 (+, 100 Hz PL) repeaters.

  Everybody is invited! Mark your calendars and spread the word! There will
be no VE exams. Come to buy, sell or visit and get ready to have some fun!
  For any additional information, please contact Tom Ellis, WD5JMA.

73,
Brian, N5ZGT

   Boy Scouts of America   Amateur Radio - N5ZGT
    Eagle Scout (12-6-96)   ARRL   QRP: NorCal# 1700   QRP-L# 580
     JASM - Troop 41   Author of Worldradio's "Youth Forum" Column
    Albuquerque, N.M.   Packet: N5ZGT @ KC5IZT.ALBQ.NM.USA.NA
  O.A. Lodge 66 <-W-W-W-<<   Internet: n5zgt@swcp.com

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Bob White <bobwhitewo3b@geocities.com>
Subject: [8601] Pic of WO3B Station
Message-ID: <32D8768E.37FA@geocities.com>

A picture of the WO3B station as used in the last Fox Hunt is featured on
my homepage.

HTTP://www.geocities.com/siliconvalley/5582

72,
Bob WO3B

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "Bob Tellefsen-CNSE97" <Bob_Tellefsen-CNSE97@email.mot.com>
Subject: [8605] QRP+
Message-ID: <M1230635.002.vtz81.1.970112062820Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Harri SM5USK:
I too have a QRP+. Mine was the original version, then had it upgraded.
The best fix I've seen for the trouble you describe is to install an RF gain
control. I mounted a small box on top of the QRP+ and put several
potentiometers in it. One is RF gain control and one is for a noise blanker I
haven't built yet.

The IF amplifier circuit inside is very conventional. You can find the circuit
in almost any receiver circuit book. Just add the control with a decoupling
diode, so that when you have the RF gain wide open, the AGC will function. As
you reduce the gain more and more, eventually there won't be enough signal
coming through to activate the AGC. That's where I run it most of the time,
with nearly maximum audio gain. Sure makes a big difference for me.

Hope this helps you.
73, Bob N6WG

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: wylde@nccn.net (Grover, K7TP)
Subject: [8631] QRP+ RF Gain Control
Message-ID: <v02130501aefec504958b@[205.139.74.180]>

Has nayone found a source for concentric controls to add an rf gain pot in
the location of the audio gain pot?

Grover
K7TP

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "Joseph L. Hartmann, Jr." <joeh@sugar-river.net>
Subject: [8638] Radio's Designer 1940 ? book for sale
Message-ID: <Pine.BSD/.3.91.970112140543.18961B-100000@arakis.sugar-river.net>

BOOKS - I have an old Radio's Designer. It looks like a first
edition, but no date in it. Probably 1939 or early 40's. It was
published in England by Wireless World and is said to be copied
from an Austrialian "Amalgamated Wireless".

I am going to sell it. Best Offer by email. Please include your
allowance for shipping in your offer.

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "Laura" <sputnik@imt.net>
Subject: [8649] Really want a 49er
Message-ID: <199701122156.OAA28956@cu.imt.net>

I do so want a 49er, but everytime one is made available, I miss it!! I
can't sit by the computer 24 hours a day waiting for one to pop up, so I am
placing a WANT-AD! If you have a 49er kit you are contemplating selling,
PLEASE contact me!!! PLEASE!

Waiting for my 49er!

73 de KJ7UN, Laura

Laura Marino Lubner - Reese Creek Montana USA
sputnik@imt.net   http://www.imt.net/~sputnik
GHRC / ARRL / 10-10 #68896 / FISTS #2785 / MARC / QRP-L # 790

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Bob Kellogg <ae4ic@nr.infi.net>
Subject: [8592] Results - tuner tests
Message-ID: <199701120316.WAA13539@mh004.infi.net>

Gang, here is a summary of the results from the first two tuner tests. There will be more to come, but you may be interested in what I have so far.

I have complete charts showing details of the tests, however, this will be an attempt to present the data in capsule form.

The two tuners tested are the MFJ-949E, (or MFJ948E without the dummy load) and the EMTECH ZM-1. Most on this list are familiar with the ZM-1, since it is designed for QRP. The MFJ-949E is one of their most popular tuners. It has 300 watt capacity and is of the C-L-C "T" design.

Each tuner was tested for 9 SWR conditions ranging from a few ohms to several hundred ohms. These conditions were tested on each of the 9 HF bands in both the balanced and unbalanced modes. The MFJ-949E covers 160M through 10M, so it was tested under 162 SWR/Frequency combinations. The ZM-1 covers 80M through 10M and was tested under 144 SWR/Frequency combinations.

It is important to remember that the information is a summary, and cannot indicate performance on any individual SWR/Frequency combination. Each tuner showed excellent performance under certain conditions, and performed less than desireably under other conditions. It is important to remember also that these results are based on testing *one* tuner which may or may not be representative of all of the tuners of the same model.

The tuners were tested for four conditions:

RANGE - Answers this question: Within the advertized frequency range of the tuner, how many SWR/Frequency combinations could actually be tuned to 1.1:1 SWR or better? Results: MFJ-949E 137/162 (137 out of 162 possible), ZM-1 140/144

EFFICIENCY - Answers this question: Within the advertized frequency range of the tuner, how many SWR/Frequency combinations resulted in less than 20% (approx. 1 db) power loss? Results: MFJ-949E 49/162, ZM-1 60/144

SWR BANDWIDTH - Answers this question: Within the advertized frequency range of the tuner, how many SWR/Frequency combinations resulted in a tuning range greater than 5% of the primary frequency? (5% on 7.2MHz is 360Kc)(Once the tuner is set, how far can we tune from the frequency before SWR climbs to 1.5?) Results: MFJ-949E 73/162, ZM-1 61/144

BALANCE - Answers this question: Within the advertized frequency range of the tuner, how many SWR/Frequency combinations indicated a balanced output with less than 1.5:1 difference between the lines? Results: MFJ-949E 52/81, ZM-1 72/72

Will have results for the ST. Louis tuner in a few days.

The limits I used above are arbitrary, of course, and in some cases, may be too broad. (perhaps I should have used 3% tuning range for the SWR Bandwidth) Your suggestions are welcome. This is the first pass at reporting results, so tell me what you think.

CUL,

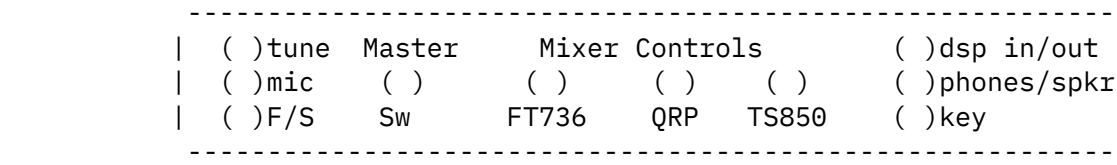
Bob Kellogg, AE4IC, Greensboro, NC
Prolably, but not nececelery. - Benny Hill

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: SYDV00A@prodigy.com (FLOYD SMITHBERG)
Subject: [8590] RNE-Rat's Nest Eliminator
Message-ID: <199701120221.VAA14288@mime4.prodigy.com>

Gary Surrency et al: Your list of "necessary functions" goes a bit beyond what I built and am using here, but one must start somewhere. My present control console has on the 3"x9" front panel:

1) Jacks: for mic, key, footswitch and headphone/speaker.
2) Switches: Master, tune and DSP(NIR-12) in/out.
3) Master switch: Routes mic, footswitch and key to selected rig.
4) Mixer controls(3): Balance audio levels from the three rigs to allow monitoring of one and/or two while operating the selected rig.

On the rear panel is a 13.8vdc jack, fuse and four groups of RG174 cable (each about 3') long that run to the mic, footswitch, key and audio output of the three rigs (FT736R-Satellite, OHR Classic-QRP and TS850S-HF/QRP) and the DSP with the necessary plugs to match each rig. Inside the unit is a simple LM386 amp, a 78L09 regulator and associated wiring...not all that complicted but it sure cleans up the operating position and simpifies rig switching. I still switch RF manually with coax switches to allow more flexibility in selecting antennas which are fed through a HB W7EL Wattmeter and a Heathkit SA2060A 2KW antenna tuner. It obviously could be done from the control unit if desired.
For keying I use a CMOSIII and a straight key plugged into the control unit which then keys the selected rig and no need to adjust speeds etc when doing a quick rig switch from the control panel and no need for multiple keyers. I'm sure others can add or improve on this so if there is interest in a station control(RNE) unit, what would you like to see in one? Gary Surrency is interested and plans to also build one...any others?



Floyd NQ7X Phoenix ScQRPion dm33uq

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Richard Wilkerson <richqrp@pacbell.net>
Subject: [8650] tin's
Message-ID: <32D96039.9FD@pacbell.net>

Hello all ... I have seen the topic of tin's to put rigs in. I have come
up with a couple of tins and would like to know if there are any kits
that go into these, or are they just made from scratch???
     thanks rich
--
Rich Wilkerson WD6FDD, Santee, Ca.
  NorCal, ARCI, Qrp-L, ECRA
        scQRPions

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: faunt@netcom.com (Doug Faunt N6TQS +1-510-655-8604)
Subject: [8636] waiting breathlessly for the 38 Special
Message-ID: <199701121821.KAA20927@netcom18.netcom.com>

While I'm waiting, I'd like to pick up add-on parts for the 38 Special.

Are the 1K and 100K potentiometers linear or audio taper?
What are the parts for the 5W add-on?
What are the parts for the RIT add-on?

My apologies if I missed these messages earlier.

I'm enclosing the message about the keyer add-on.

73, doug

     Date: Thu, 05 Dec 1996 23:45:00 EST
     From: ori@juno.com (Ori K Mizrahi-Shalom)
     To: qrp-l@Lehigh.EDU
     Subject: [5725] TiCK on "38 Special"

     For all those that ordered a "38 Special" kit and want to
     add the TiCK keyer to it (who doesn't?!), here is the list
     of components that you have to add in addition to the
     keyer chip from Embedded Research:

two resistors 10 KOhm 10% (1/4 or 1/8 W)
one ceramic disk capacitor 33 pF
one transistor PN2222 or equ.
one voltage regulator 78L05 (tiny plastic package)
one miniature N.O. momentary switch (panel-mounted with mounting screw)
one 1/8" stereo headphone jack (panel-mounted with mounting screw)

I believe all these components can be purchased at your local Radio Shack store.
We will soon publish a list of all components necessary to complete the basic kit and details of enclosure size and proposed layout for front and back panels.
We will also publish a list of components needed for the IRF-510 amplifier and the RIT circuits, again nothing exotic except for one RF choke (or a toroid) for the power amp.

72/73

ORI AC6AN

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: wylde@nccn.net (Grover, K7TP)
Subject: [8582] Re: 38 Special abbreviation
Message-ID: <v02130500aefddb882b3d@[205.139.74.189]>

At 2:57 PM 1/9/97, Marcus Leatham wrote:
>In keeping with the spirit of the 38 Special name
>(it's an obvious reference to the firearms caliber),
>I think 38 Special should be abbreviated ".38 Spl",
>which is the abbreviation used in many firearms
>catalogs, reloading manuals, etc -- it's even stamped
>on the heads of the brass cases.
>
But why?

Grover

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: ori@juno.com (Ori K Mizrahi-Shalom)
Subject: [8645] Re: 38S IF filter (LONG but technical!)
Message-ID: <19950112.113519.4367.2.ori@juno.com>

Jim,

Glad to read your posting, that's the kind of things we need
to see more people doing and sounds like you know your
stuff...
Just to keep you a bit more updated on what's on the PCB.
There are pads and traces for a transformer output from
the first mixer (U1) with a grounded center for the secondary.
This enables feeding two crystals symmetrically (pads and
traces provided) in a half-lattice circuit or inserting a parallel
trimcap to offset the parallel capacitance of a single crystal
filter.
Both options result in a sharper band-pass characteristics.
The transformer may or may not be necessary, since pins 4 and
5 of the NE602 are opposite in phase outputs from a balanced
mixer. This has to be experimented with.
Why is this part of the design so sensitive? The 38S incorporates
a sharp audio filter (read Paul Harden's lab report).
The IF filter and the audio filters must be aligned so they both
peak for a specific frequency at the IF.
Most people are comfortable with a CW pitch of 600-700 Hz and
we targetted about 650 Hz audio center in this design.
Now, some will ask, what has an audio pitch to do with the IF?
Well, as you might recall, the audio in the receiver is generated
by mixing a 12.0 MHz BFO with the IF signal. If the BFO is exactly
on the transmit/receive frequency, a zero frequency output will
result past the product detector, very hard for anyone to hear.
That's why we shift the BFO from IF center by 650 Hz or so, that
we call an "offset". So now we have a direct link between the
audio pitch we prefer and the IF center frequency that will generetae
it. Then we tune our audio filter to peak at the audio center and
the IF filter to peak at the corresponding IF center.
Reviewing the 38S schematics you'll find two capacitors on both
ends of the IF filter's crystal. These must be tuned for a specific
type crystal as explained.
Also, switching to another type crystal for the BFO may require
changing the offset circuit "pulling" capacitor value to yield again
a 650 Hz offset (don't forget to include the minor shift of the VXO
in the offset measurements).
The steps I recommend for designing in a different IF filter are
as follows:

(1) identify a source for the crystals that is reliable and widely
available, if you want a reproducible design by others.
(2) adjust the audio center to your liking or asume a 650 Hz,
to which it is tuned now.
(3) measure the VXO offset on receive and transmit, assume 70 Hz
for the current circuit.
(4) install a new crystal in the BFO circuit and adjust the "pulling"
on receive until you get a **total** offset of 650 Hz (or the new one
you chose).
(5) design a new IF filter and adjust it for a peak at the new IF center
frequency. Sweep this filter and verify your results.
For homebrewers, sweeping the filter can be simply done as
follows:
 (a) change the audio section for a flat frequency response.
 (b) hook-up a scope across the audio output. driving a nominal load.
 (c) feed an RF signal at the antenna connector. It's assumed that
 your signal generator outputs a fixed level within a few KHz range.
 (d) slowly "sweep" the RF signal and observe the audio frequency
 and level. Be careful, since a detuned filter (remember, you're now
 an experimenter!) may show both sidebands at the same level, or
 even "favor" the wrong sideband. If you are careful,you can achieve
 good results with this method.
 (e) the final test is, always, the full receiver chain (inc. the audio
 filter) receiving an RF signal.

Maybe before you attempt this exercise, try to measure the current
IF filter for a reference. See if you can come up with some tweaking
that will sharpen the response of your radio.
To put things in perspective, the -128 dBm sensitivity is not the
ultimate achievable with this receiver. With a little adjustment you
can hear much weaker signals (if you're lucky you may already be
hearing better).
We have seen a 15 dB degradation of MDS by switching to different
crystals. Your results may vary.
I will refer people to the "Solid State Design for the Rdio Amateur"
asr a sources for reading about the "enhanced" IF filter. Mine is
third printing 1995 and I found the following pages interesting:
p. 86: general description of the circuit.
pp. 101-103: a receiver using a half-lattice filter and some discussion
component selection and performance.
pp. 107-110: another variation on a symmetric filter.

Those who want a bit more information about Cohn filters may be
interested in reading the reprint of Wes Hayward's articles on the
subject in the appendix of "W1FB's Design Notebook" or check
the original QST articles (5/82, 7/87).

GL

ORI AC6AN

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Dale LeDoux <dledoux@laci.net>
Subject: [8584] Re: Cascade Goof-up + Desoldering ICs?
Message-ID: <1.5.4.16.19970111183912.244f3ea0@laci.net>

At 08:18 1/11/97 +0000, you wrote:
>Hi Gang,
>
>Well, I found my first goof-up on my Cascade project. Installed U6 backwards.
>Although I've built a little, I'm a first-timer with the 'double-sided
plated-through' nonsense.
>Anyone have any great ideas for getting the NE602 off the board? (I do
have another so I'm
>not concerned about the 'integrity' of the one that's in there).
>
>73 and thanks,
>
>Harry, KM3D
>
>OUTLAW WIRELESS LEAGUE
>QRPARCI #3875
>NORCAL #1295
>QRP-L #637
>
Harry-
  I made the same mistake. Wilderness radio corrected mine for me.
However, to desolder an IC, the best bet in my experience is to take a small
set of cutters and cut each leg off the IC as close to the IC body as
possible, then desolder and remove each leg individually.

72--

Dale LeDoux
Sulphur, Louisiana
Bath Electrical Systems
Power Specialists -- 480 V to 230 KV
KD5QI -- QRP-L #602

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997

From: jeffa@ix.netcom.com (Jeff Anderson)
Subject: [8625] Re: Conjugate Matching
Message-ID: <199701121520.HAA13771@dfw-ix8.ix.netcom.com>

Cecil,

I'm sittng here scratching my head, wondering what you meant in your latest post.

Let's see, you say, "I apologize if I have misunderstood any of your postings. It appears that we have never disagreed on anything in the rest of your latest posting." You also say that I was "not talking about the same load that the theorem talks about."

Is this your way of saying that I was right, and you were wrong?

Cecil, our disagreement this past week and a half was not about your misunderstanding my postings because I was using terminology in an unconventional way. Go back and read them. In almost all cases I tried to take particular care when defining my 'reference point' for viewing the load, just to prevent misunderstandings such as this.

No, our disagreement was due to *your* misunderstanding of the fundamental concept of 'output impedance', and by extension, a misunderstanding of the principles of conjugate matching. Check the record - it's there in black and white. My position has not changed one iota.

And now I'm being accused of having a "(self-admitted) closed mind," and not understanding non-linear amplifiers.

Hmmmm, sounds like a diversionary tactic to me.

But let's examine the accusation anyway. What the heck.

Let's start with your statement, "if I am right, we have always been tuning our antenna tuners to a conjugate match..."

I believe I stated my position regarding non-linear amps succinctly on 10 January, but let's go through an even more detailed description of my reasoning.

1. A typical QRP PA is a final transistor operated in Class-C with a 3 or 5 element low-pass filter. Many of these finals are designed to produce 2 watts into a 50 ohm load with a 12 volt or so supply voltage. What was the design process here? Load-lines? No, it's simply using the formula P = V*V/(2*R), where V is supply voltage.

2. What is this R we've just found? It is the load the transistor wants to see *at its collector* to produce the target power.

3. Is this resistance the complex conjugate of the transistor's output impedance? We don't know, but it's not likely, as most of these same amplifiers can produce 4 watts if the collector impedance is transformed from 50 ohms to 25 ohms. If I can get more power with a different load resistance *as seen at the transistor's collector*, then clearly the I did not have a conjugate match with my original load.

4. If this isn't the optimal (complex conjugate) impedance for my transistor, how do I find out what is? One can do the following:

    A. Check the data book. Often they'll state the output impedance for a given operating condition.
    B. Measure it. A procedure for this is described in Motorola App Note AN-282A, "Systemizing RF Power Amplifier Design."

    Once you've found the transistor's optimal output impedance for your operating conditions, you can design a matching network which transforms a 50 ohm load into this optimal value (see Motorola App Note AN-721, "Impedance Matching Networks Applied to RF Power Transistors.")

5. Isn't a typical 2 Watt QRP transmitter's 3 or 5 element lowpass network the same thing as this optimal network? No. It doesn't provide the requisite impedance transformation to the optimal value (unless that optimal value is, say, 50 ohms).

6. Can I use my antenna tuner instead to tune to this optimal value? Although possible, most of us have no means to determine if we've accomplished this. Almost all of us use an SWR meter to adjust our tuner, and we adjust the tuner so that the SWR is 1:1. All this means is that the we've tuned the tuner so that the the load (transmission line & antenna), *as presented to the transmitter's output terminals*, looks like 50 ohms. That's it. If this 50 ohms, when transformed by the final's output network, looks like the collector's optimal load resistance, then indeed we have tuned to a conjugate match. But I hope it is clear from the above discussion that this is not usually the case.

If I had a way to accurately determine the power radiated *at the antenna*, then I could use my tuner to adjust to the optimal load value (although this may, and probably will, screw up the output harmonic suppression filtering, which was designed for a 50 ohm load). But most of us just use an swr meter, which ain't gonna do it.

That's it! Rocket science it's not! And if we're going to discuss this further, please read the Motorola App Notes first.

And you're in further luck! Tomorrow I leave on vacation, so you will
be able to accuse me to your heart's content of any number of things,
and I won't be able to respond. Lucky you!

- Jeff, WA6AHL

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "Dean T. Miller" <dtmiller@dsmnet.com>
Subject: [8644] Re: Conjugate Matching
Message-ID: <9701121924.AA10309@dsm7.dsmnet.com>

At 07:20 AM 1/12/97 -0800, Jeff Anderson wrote (in part):
>
>If I had a way to accurately determine the power radiated *at the
>antenna*, then I could use my tuner to adjust to the optimal load value
>(although this may, and probably will, screw up the output harmonic
>suppression filtering, which was designed for a 50 ohm load). But most
>of us just use an swr meter, which ain't gonna do it.

Yeah, that's what I've finally decided. Put a little RF snooper out on
a 25 foot tether and adjust for biggest bang. Only problem then is the
harmonics. Hmm, maybe a pi-network tuner might cut them down?

Dean -- from Des Moines (KB0ZDF)

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Clay N4AOX <wyn@worldnet.att.net>
Subject: [8618] Re: Conjugate Matching (read if your are confused)
Message-ID: <32D7C128.2A30@worldnet.att.net>

William H. Launer wrote:
>

>
> Where does all this lead?   Since the reactive component of the complex
> impedance is frequency-dependent, any system matched at a given frequency
> will not be matched when we change frequency.

I consider Cecil's model *non-linear* because of a time variant load (50 ohm to 300 ohm and points in between, ie. is the switch time infinitely small?--then there are many frequencies). That reflected wave travelling in the 10 mile lossless transmission line will be something to behold - many frequencies (a freq. is a definable pure tone or sinusoid of constant period), and they will bounce around for a while. Some may even get back into the transmitter. *Don't try this kind of load switching under power at home.* ;-)

It seems that most of the comments about Cecil's conclusions are based on *linear* model conditions. That's like apples and oranges or ships passing in the night. On the other hand, I suppose one could model an infinitely fast ATU to tune to all of those frequencies and still present a 50 ohm match to the tranmitter output terminals.

Another interesting model to consider is spread spectrum related, ie the transmitter is changing frequencies over a wide range very fast. Now what will a linear transmission line/antenna model response look like?

72/73,
Clay N4AOX

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "William R. Colbert" <v31xe@dzn.com>
Subject: [8587] RE: E-mail providers
Message-ID: <32D861D8.2E29@dzn.com>

We also get the AOL disks thru the mail but we do not throw them away. Avery labels (or any other brand) work very well on formatted AOL disks. So, don't throw them away, recycle them. OH, and if they send you the cd version, it makes a nice coaster for your coffee, cola or whatever.
--
72/73, Ray Colbert, W5XE, SOWP 1064M
(also af852@rgfn.epcc.edu)
El Paso, Texas

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "M. Monninger" <markem@primenet.com>
Subject: [8596] RE: E-mail providers

Message-ID: <1.5.4.32.19970111205705.008d94d4@mailhost.primenet.com>

At 08:00 PM 1/11/97 -0800, W5XE wrote about AOL disks:
> ...
>OH, and if they send you the cd version, it makes a nice coaster
>for your coffee, cola or whatever.
>

I've never tried it, but I hear that zapping a CD in a micrwave oven for 10 or 15 sec puts on quite a show. Also does interesting things to the CD.

I disavow any responsibility for damages to ovens or CDs...

My wife & kids use AOL, mostly for email. They have a "flash email" thing where you can get your email and then read it off-line. Your connect time is very short and it can be set up to do it automatically at specific times. My wife set it up to dial in at 05:00. It works OK about 99% of the time. I think you can also compose off-line and it will wait and send them during the flash session also. We decided to keep the $8.95 rate (or is it $9.95?) and rarely use more than the base time.

73... Mark AA7TA

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "'AB7HI' Stephen Lee" <slee@u.washington.edu>
Subject: [8599] RE: E-mail providers
Message-ID: <Pine.A41.3.95b.970111202624.63362D-100000@homer10.u.washington.edu>

I too have an AOL account. Since December the AOL account has answered my access requests only once. The XYL has been able to get in twice during the day. This is my last month with AOL. In case you all are wondering why I have a .edu account and an AOL account: The university stipulates that this account is strictly for my benefit only. No family members are authorized to use it. Like Ham radio (and most things in life), I gotta play by the rules.

Cheers all!
Stephen Lee, AB7HI, Tacoma, WA
slee@u.washington.edu

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997

From: Dan Keen <70731.722@CompuServe.COM>
Subject: [8607] Re: Email providers
Message-ID: <970112070454_70731.722_EHM45-1@CompuServe.COM>

Oops, wrote that messages about Email providers suggested credit card and small claims court relief. But on the same pass when I was posting that online, there were over a dozen other messages coming down to me with other suggestions. Looks like more good stuff for me to consider and ponder. TNX all.

Dan

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: NilsBull@aol.com
Subject: [8616] Re: Email providers
Message-ID: <970112085021_878535510@emout07.mail.aol.com>

Interesting. I've been off the wires for about a week, what with two computers out of four in this bat roost being dead out. The other two are not set up for net surfing. So I sat for about a week, knowing that there was a list of mail showing up every day on an account that I could not get to. Last night it took 16 minutes to get all my backed up email. Like when the prunes and raisin salad finally kicks in.

You say you're gonna be about 350 bux out. Why you say that? Or does AOL charge you big time if you can't get to the voluminous mail that you'd stacked up while trying to get past the busy signal? I've had the bizzy sig here too a lot, but I've found that a simple starting over has saved me some time. As in cancel the attempt and then attempt again. One thing's for sure: the system is flat out badgered. Everyone wants to get in at $20 some and AOL was not physically set up to handle that sort of end-on attack. Such is the way systems get. You set one up and pretty soon it's maxed out. Then you add stuff and it gets maxed out again. Works like that.

Should be fairly evident from a techno-historical viewpoint. As in: there was a time when more than 64k of RAM space was considered unnecessary. Then it went to 128k. Then 256k. Now you can't do shnot with less than 4 (the present strap level of this machine... remember, the Compaq died and still awaits their particularly overburdened service system's attention). In fact, the used 386 board that I picked up damn near free yesterday as part of a plan to make the 286 (@ 8 MHz!!?!?!) the lesser of four weevils is gonna be strapped with 8 meg. Life goes on.

In the meantime, we're part of the conspiracy. It's our fault that AOL (or

any other system strapped to its limits) is overrun. We use it and thus for some other schmuck we are the problem. Asi sea, como decia mi padre.

73
Nils
WB8IJN +c
"I told you not to let those peppers in here! Now they've cornered the nurses and I'll never get my tapioca! What the hell good is this call button if it won't answer me?"

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Richard Wilkerson <richqrp@pacbell.net>
Subject: [8623] Re: Email providers
Message-ID: <32D8FCC3.66CB@pacbell.net>

AOL was on TV last night and said they were swampped with people joining and that they "know" they are having log-on and disconnect problems and that it would be about two months before they can get it corrected. But in the mean time please join....HI HI.
     Iam sticking with my "need no credit card" pacbell. put on my phone bill and let it fly..... 73's to all .. rich

--
Rich Wilkerson WD6FDD, Santee, Ca.
  NorCal, ARCI, Qrp-L, ECRA
        scQRPions

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "Joseph L. Hartmann, Jr." <joeh@sugar-river.net>
Subject: [8640] Re: Email providers
Message-ID: <Pine.BSD/.3.91.970112141205.18961C-100000@arakis.sugar-river.net>

On Sun, 12 Jan 1997, Richard Wilkerson wrote:

> AOL was on TV last night and said they were swampped with people joining
> and that they "know" they are having log-on and disconnect problems and
> that it would be about two months before they can get it corrected.
> But in the mean time please join....HI HI.
>   Iam sticking with my "need no credit card" pacbell. put on my phone
> bill and let it fly..... 73's to all .. rich

You mean not everyone on this list is using an independent,

local-call , $20/ month with unlimited time, ISP ?

W H Y N O T ?

Best Regards,

Joe Hartmann Tel: (603) 863 6073
K2AJV -issued email: joeh@sugar-river.net
1951 home-page: http://www.sugar-river.net/~joeh

First Student at the:

Linux Academy in the Sunshine Town of Newport, NH

Thanks to RMS, Linus, and other contributors of free software!

>
> --
> Rich Wilkerson WD6FDD, Santee, Ca.
> NorCal, ARCI, Qrp-L, ECRA
> scQRPions
>
>

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: tart1@juno.com (Nathan C Tart)
Subject: [8641] Re: Email providers
Message-ID: <19970112.134657.4751.31.tart1@juno.com>

On Sun, 12 Jan 1997 14:14:52 -0500 (EST) "Joseph L. Hartmann, Jr."
<joeh@sugar-river.net> writes:
>
>
>On Sun, 12 Jan 1997, Richard Wilkerson wrote:
>
>> AOL was on TV last night and said they were swampped with people
>joining
>> and that they "know" they are having log-on and disconnect problems
>and
>> that it would be about two months before they can get it corrected.
>> But in the mean time please join....HI HI.
>> Iam sticking with my "need no credit card" pacbell. put on
>my phone
>> bill and let it fly..... 73's to all .. rich

>
>You mean not everyone on this list is using an independent,
>local-call , $20/ month with unlimited time, ISP ?
>
>   W H Y   N O T ?
>
>Best Regards,
>
>Joe Hartmann   Tel: (603) 863 6073
>K2AJV -issued   email: joeh@sugar-river.net
>   1951   home-page: http://www.sugar-river.net/~joeh
>---
>First Student at the:
>
>   Linux Academy in the Sunshine Town of Newport, NH
>
>Thanks to RMS, Linus, and other contributors of free software!
>------------- I grant this to the public domain -------------
>
>>
>> --
>> Rich Wilkerson WD6FDD, Santee, Ca.
>>   NorCal, ARCI, Qrp-L, ECRA
>>   scQRPions
>>
>>
>
>

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Bob Hightower <ki7mn@dancris.com>
Subject: [8643] Re: Email providers
Message-ID: <199701121912.MAA13824@dancris.com>

At 02:14 PM 1/12/97 -0500, you wrote:

>
>You mean not everyone on this list is using an independent,
>local-call , $20/ month with unlimited time, ISP ?
>
>   W H Y   N O T ?
>
>
Nor can I. Bigger is not necessarily better.I left AOL/Compuserve years ago
and have never looked back. Have had much better access and more friendly
customer service, too.

73,
Bob, KI7MN Chandler, AZ ScQRPion QRP-L #271, NorCal #1228, CQC #274, QRP ARCI #8918, AK QRP #30, not in any order of importance.

http://www.dancris.com/~ki7mn

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Dan Keen <70731.722@CompuServe.COM>
Subject: [8606] Re: Email providers (and JUNO)
Message-ID: <970112065834_70731.722_EHM47-1@CompuServe.COM>

Thanks for the many suggestions via email and the few on the list regarding my recent encounter with AOL's polocy of no guarantees/no refunds. The two main themes seem to be small claims court and relief via the credit card company.

I wonder which office at county/city hall is the place to get a form for filing small claims.

Will see on Monday what VISA card company says. Not to reassuring to find on the back of the VISA statement that relief for disatisfaction with goods/services is subject to purchases within a hundred miles from home. That 100-mile-from-home limit might be the proverbial Achilles' heel.

Meanwhile the AOL representative at their 800 number billing department said that I could have AOL now "discontinue service". She said that although if I did that then AOL would not provide a refund, but on the other hand I would get credit if I resigned up later in two months after possbile hardware upgrades to AOL's phone system. I then asked if I could get a brochure that would explain the details of getting credit when rejoining. And then she said that AOL had nothing in writing on that matter, but she would write the polocy out herself and mail it to me immediately. Sounds odd that their company doesn't have something in writing already prepared. I wonder what a letter from one of their individual reps is worth legally speaking.

Sounds to me like that maybe if I discontinue service, then maybe AOL's capacity will increase, and maybe later on they might give credit for most of the remaining $358 despite the fact they have no written company polocy stating that they will do so.

Will have to see what credit card company says.

Thanks again all for the suggestions.

BTW, I mentioned previously that 2 weeks ago the busy signals started occuring suddenly just after signing onto the plan. I guess perhaps the cause being everybody buying 'puters for XMAS which had AOL trial versions included in the bundled software.

The moral seems to be to pay by the month instead of preparing for a year or two.

TNX all for listening!

Dan

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "Joseph L. Hartmann, Jr." <joeh@sugar-river.net>
Subject: [8634] Re: Email providers (and JUNO)
Message-ID: <Pine.BSD/.3.91.970112132845.17493H-100000@arakis.sugar-river.net>

I would apply for another credit card (just in case) -- we are happy with ATT -- have never used them in a case of dis-satisfaction with merchandise provided, but another card might give you some leverage with Visa. I would be inclined to play "hardball" with Visa and refuse to make any further payments to them until this AOL scam is cleared up. This could damage your credit rating, but I believe that any unfavorable credit report on you gives you the right to make a statement regarding it. If Visa refuses, maybe you can get a lawyer to review whether you have grounds to sue Visa for conspiracy to commit fraud -- AND MAKE IT A CLASS ACTION SUIT. Maybe the breast implant lawyers would be interested. The lawyer should be paid only by percentage of the award. If the lawyer does not want to take a contingency fee, then either he knows you have no case or the lawyer has no confidence.

Maybe small claims court is a better way to go: I was once subpoenaed to attend a case before the New Jersey small claims court, and watched with interest as the case was presented. In his decision the judge told the plaintiff "Mr. Shulman, I could have awarded you triple damages, but due to your conduct in this court I am ordering the landlord to merely return your deposit. You should be thankful I have not held you in contempt of court!"

My friend, the plaintiff, was rather self-righteous, and obstreperous, and the judge didn't like it. BUT -- possibly you (if you behave yourself in court) can collect triple the

amount of the scam!! I wish it would be so!

Best Regards,

Joe Hartmann   Tel: (603) 863 6073
K2AJV -issued   email: joeh@sugar-river.net
    1951   home-page: http://www.sugar-river.net/~joeh

First Student at the:

      Linux Academy in the Sunshine Town of Newport, NH

Thanks to RMS, Linus, and other contributors of free software!

On 12 Jan 1997, Dan Keen wrote:

>
> Thanks for the many suggestions via email and the few on the list regarding
> my recent encounter with AOL's polocy of no guarantees/no refunds. The two
> main themes seem to be small claims court and relief via the credit card
> company.
>
> I wonder which office at county/city hall is the place to get a form for
> filing small claims.
>
> Will see on Monday what VISA card company says. Not to reassuring to find on
> the back of the VISA statement that relief for disatisfaction with
> goods/services is subject to purchases within a hundred miles from home. That
> 100-mile-from-home limit might be the proverbial Achilles' heel.
>
> Meanwhile the AOL representative at their 800 number billing department said
> that I could have AOL now "discontinue service". She said that although if I
> did that then AOL would not provide a refund, but on the other hand I would
> get credit if I resigned up later in two months after possbile hardware
> upgrades to AOL's phone system. I then asked if I could get a brochure that
> would explain the details of getting credit when rejoining. And then she said
> that AOL had nothing in writing on that matter, but she would write the
> polocy out herself and mail it to me immediately. Sounds odd that their
> company doesn't have something in writing already prepared. I wonder what a
> letter from one of their individual reps is worth legally speaking.
>
> Sounds to me like that maybe if I discontinue service, then maybe AOL's
> capacity will increase, and maybe later on they might give credit for most of
> the remaining $358 despite the fact they have no written company polocy
> stating that they will do so.
>

> Will have to see what credit card company says.
>
> Thanks again all for the suggestions.
>
> BTW, I mentioned previously that 2 weeks ago the busy signals started
> occuring suddenly just after signing onto the plan. I guess perhaps the cause
> being everybody buying 'puters for XMAS which had AOL trial versions
> included in the bundled software.
>
> The moral seems to be to pay by the month instead of preparing for a year
> or two.
>
> TNX all for listening!
>
> Dan
>
>
>

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Bob Patten <n4bp@shadow.net>
Subject: [8609] Re: Email providers, Smoke demons, etc.
Message-ID: <Pine.SOL.3.91.970112053831.16027A-100000@hyper>

On Sat, 11 Jan 1997, Bill Myers wrote:

> At 12:27 PM 1/11/97 EST, Gary L Surrency wrote:
>
> >I get these "free" AOL and Compuserve disks in the mail every week, or in
> >whatever piece of new computer gear I buy. I promptly toss them in the
> >trash where they belong.
>
>   I'm saving mine, right now I have over 50 coasters for my drinks in
> different colors and designs.
>
They also make nice clocks. I made several for Christmas gifts.

Bob Patten, N4BP
Plantation, FL
n4bp@shadow.net

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Bob Patten <n4bp@shadow.net>

Subject: [8610] Re: Email providers, Smoke demons, etc.
Message-ID: <Pine.SOL.3.91.970112055740.16027E-100000@hyper>

On Sun, 12 Jan 1997, Bob Patten wrote:

> They also make nice clocks. I made several for Christmas gifts.
>
I meant the "compact" disks of course... Most AOL offerings come to me
on CD. The floppies, I use with caution - no valuable data.

> Bob Patten, N4BP
> Plantation, FL
> n4bp@shadow.net
>
>
>

Bob Patten, N4BP
Plantation, FL
n4bp@shadow.net

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Mike Boice <kd0fx@worldnet.att.net>
Subject: [8603] Re: Encounter of the Altoids Kind
Message-ID: <1.5.4.32.19970112054554.0067ec00@postoffice.worldnet.att.net>

Read a newspaper article recently about a firm over in Tacoma, WA, by the
name of Brown & Haley. You may have seen their Almond Roca for sale around
the holidays. Anyway, the story was about how they've introduced a
competitor to Altoids, also a pepperminty-type flavor. Anyway, the key
point in the article (or so I thought) was that their new product was going
to be sold in tins just like Altoids, but with a completely different
design, logo, etc (of course). The tins should be virtually identical to
those of the Altoids, altho the size may be slightly different, because
they're both made in Baltimore by the same firm! It seems Brown & Haley
used to be the sole importer for Altoids, and realized that Altoids doesn't
have any competition, so they came out with their own.

Just another possibility for tins.....

73,
mike KD0FX
Richland WA

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: w77kxb@juno.com (William Harris)
Subject: [8594] Re: EQUIPMENT ENCLOSURE
Message-ID: <19970111.201801.6791.0.w77kxb@juno.com>

On Sat, 11 Jan 1997 18:01:15 -0500 (EST) Wa2eaw@aol.com writes:
>To all:
>Nice metal enclosures can be had. I have a few bottles of Johnnie
>Walker
>scotch
>that have come in some nice metal enclosures. About 4"x4"x12". I buy
>the
>scotch for the enclosures.
>72/73
>Bob (hic) WA2EAW
>
>

a great idea. I'll drink to that!
w7kxb (hic)
mesa, az
12/0224z

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Bob Roach <KE4QOK@worldnet.att.net>
Subject: [8620] Re: EQUIPMENT ENCLOSURE
Message-ID: <19970111231120.AAA16367@LOCALNAME>

At 09:28 PM 1/11/97 +0000, you wrote:
>Can anyone suggest a good place to get equipment enclosures besides Ten-Tec?
>Mark - WB0IQK/8- #870
>
Hi Mark,

Try looking for a local electronics supplier. We have a store locally that sells retail but supplies a lot of local companies as well. They keep a small stock of good quality enclosures and can order anything you can afford.<GGG>

                                                    (o   o)
_____________________oOO_( )_OOo_________
73 es TNX

KE4QOK Real radios glow in the dark.
Bob Power is no substitute for skill.
  If it stayed up last winter, it was too small.
136 Hermitage Rd.
Newport News, Va. 23606 KE4QOK@worldnet.att.net
(757)930-0348

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Jim Hydzik <congress@magpage.com>
Subject: [8611] Re: Filter wanted-Filter Found Drake
Message-ID: <199701121024.FAA13630@alaska.magpage.com>

Thanks to all who responded to the WTB 1.5 KhZ R-4C filter

Locked into one with N3BJ nearby.

More QRP bucks for QRP goodies.

Spcl TKS to >Ed, W1AAZ and Carl, KM1H.

Jim K3QIO Delaware
Love that Great Drake Sound

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Clay N4AOX <wyn@worldnet.att.net>
Subject: [8619] Re: Fireside Sprint Times?
Message-ID: <32D7C2E3.51DA@worldnet.att.net>

Mark S. Adams wrote:
>
> Hi Gang,
>
> What is the best time to operate in the Sprint on Sunday? Being on the
> east coast, and wanting to work mostly on 20M I suppose that the best time
> is 3pm est-7pm est. The west coasters will be on and any east coasters
> that started at noon est will be on.
>
> Any comments? What is the general philosophy on the timing in this test?
>
> WX- it is wicked outside right now (1440 UTC SAT). We have 19 inches and
> it is still coming down hard, the winds are still at 20-30 mph.

>

Mark,
    I would have guessed 2pm est - 6 pm est, but 3 to 7 is probably not bad.

WX- 3.8F last night, 2 to 4 in. snow, curr. 15.3F wind 5 mph
    OK, enough, now for spring!

72/73,
Clay N4AOX

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: herr@ridgecrest.ca.us (Michael Herr)
Subject: [8598] Re: KE3FL Antenna woes
Message-ID: <v01530501aefe12805ee0@[199.120.150.67]>

<< This weekend I found the short. It was caused by the newest member of
 the family, a short :) mutt who chewed almost completely through the
 coax at floor level in the garage. I repaired it and put PVC around
 it, I hope that works to keep her interest someplace else.
  >>

     I once built a end feed random antenna with an external, fixed antenna tuner. The lot was small and odd shaped, I only wanted 40 meter and I needed to coax feed into the house. Well, this simple antenna tuned was tuned up on my favorite portion of the band and enclosed in a nice wood box. Worked for a week or so until I noticed the SWR was sky high. Went outside and found that Bennett the Wonder dog and dismantled the wood box and then unwrapped that great B&W coil all over the yard. Bennett was very proud of his work. Yelling at the dog didn't work either as he never was able to get that coil rewound properly.
72
Mike WA6ARA

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "'AB7HI' Stephen Lee" <slee@u.washington.edu>
Subject: [8602] Re: KE3FL Antenna woes
Message-ID: <Pine.A41.3.95b.970111204443.63362E-100000@homer10.u.washington.edu>

Be thankful for the little things, people, as in dogs-n-cats.

My dad raised quarter horses as a hobby when I was in high
school. I had the shovel end of the business and there were
as many as 15 critters doing their business on some 10 acres.

Had saddled up for a hot date one Saturday morning so put 2
in the back yard until after breakfast. One, named Pesky, was
the only grade horse we owned. He was half quarter horse, half
thoroughbred and looked like a short necked giraffe. Well,
that morning Pesky ate 4 rose bushes to stumps, pruned the plum
tree to a single trunk, then for desert ate my twin lead from
the roof to the window. Mom saw him at the window (where he was
slurping twin lead like it was spagehtti) and blew him a kiss,
the flirt. He decided to come on in...pushed his nose through
the window. For his coup-de-gras he picked up the water trough
(a water filled metal ice chest) with his teeth and tossed it
onto the other horse. Don't recall that I ever had a pair of
Levis that Pesky hadn't ripped the left rear pocket off of.
No novice riders on this one, he'd yank you off as you tried
to mount, hi hi.

After high school it fell upon me to do the family honor of
serving our country. I called home from boot camp and dad
gave me the news straight up. He had sold Pesky. I had to
find a quiet place and shed a tear or two. In those days,
unlike today, good twin lead was easy to find and a horse was...
well...a horse.

73 out there,
Stephen Lee, AB7HI, Tacoma, WA
slee@u.washington.edu

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: gaponoff@macconnect.com (Mark Gaponoff)
Subject: [8647] Re: KE3FL Antenna woes
Message-ID: <v01510101aeff025e8b1a@[206.80.181.175]>

Anti-puppy trock:
  Indoors, at least, if you coat wire with Tabasco sauce
(or equivalent), they puppy will lose interest quickly.

--Mark

-- Mark Gaponoff (gaponoff@macconnect.com) 73's de KJ7EM.
  "Life has meaning, but a poor signal-to-noise ratio."

-- Ann Gaponoff (gaponoff@macconnect.com)
  "Si hoc legere scis, nimium eruditionis habes."

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Jon Iza <ea2sn@jet.es>
Subject: [8608] Re: LDG QRP Autotuner
Message-ID: <32D91B4D.5429@jet.es>

Gang,
to make it short, I had the same trouble with the SWR pickup toroid.
I did my winding with a braided wire and found the trimmer was too large
to get a null. After checking with Dwayne and doing my homework, I found
some information from G3WPO and others about this kind of SWR meters.
It looks like the capacitive divider has to be tweeked. Others use,
instead of trimmer/fixed, a very small cap linked to the antenna line
and a large trimmer padded with a fixed cap linked to ground. As I am
lazy to rewound the toroid and it's a pain on ... I padded the 100 pF
cap with some 39 pF extra and, voila!, null right on the middle of the
trimmer course.
Other than that, you can fool the computer to think an SWR of 2 is 3
and keep looking for a lower setting or, viceversa, fool it to think
an SWR of 3 is just fine. This way the tunning will be much faster,
but you will have a rig badly tuned. Don't risk it and adjust it as
stated on the manual. Sit back and enjoy.
jon, ea2sn
P.S. No commercial... with LDG ... just a happy user and translator of
their manuals into Spanish... for free! ... the "pass on the good deed"
kindastuff!
--
Jon Iza   ea2sn since 1978   qrp'er at large!
** One's needs are proportional to the square of his/her incompetence **
URE - ARRL - DARC - VERON - ARI - WIA - NZART
EAqrp 26 = Gqrp 1216 = ARCI 5153 = qrp-L 313 = NorCal 701 = ARS 202

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [8604] Re: ND
Message-ID: <Pine.SUN.3.90.970111213707.309C-100000@vortex.sage.dri.edu>

On Fri, 10 Jan 1997, Steve Hurst wrote:

> Is Idaho runined ? What part of Idaho have you been too? For us who have to
> work for a living , I happen to like the growth that has taken place over
> the past 15 years here in Idaho.

I'll only comment on that part that affects QRP. Antenna restrictions. All come from California builders and those who buy there!!! Idaho used to have nice dirt lots, now they are all blacktop and hot in the summer. More taxs.....sri, I said I would limit to QRP.....

OK, qrp.....

Jeff, KH2PZ, was here today. He brought a little TX that he made on a little board. Used pins as soldering points. Xtal control on 7057. He wanted to see how much power it would put out. Hooked it up and got one full watt out. Final is a pair of 2n2222's.

(Not real sure how close that meter is at the one watt level....might have been less).

Put the little board rig on the 24ft vertical that is fed with 72 ohm coax. Used a little coax that has clip leads on the end to connect to the rig. No tuner.

Had the inverted vee on the RX. Heard a station, K7NPN I think it was, called him with a clip lead in my left hand as the key and worked him with no repeats!!!

Jeff about fell off the chair! First qso with the little rig. The whole antenna system is connected with wire nuts. Just a 24ft long pipe fed at the bottom....bolted to a 4x4 post in the field. About 40 radials.....maybe 125ft of feedline laying on the ground.

Who sez ya gotta be fancy to have fun????

cul,

73, Ron,

.........KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu...........Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: launerb@crl.com (William H. Launer)
Subject: [8626] Re: Pic of WO3B Station
Message-ID: <v01530500aefec0317da0@[192.0.2.1]>

Neat setup. No "Rats Nest" there! If I only could have heard you
this last time....

72/73 Bill wb0cld

Bill Launer
St. Charles, MO
launerb@crl.com
wb0cld@wb0cld.ampr.org [44.46.66.25]
qrp-l #279   qrp arci #3551
Grid Square EM48RT

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>
Subject: [8613] Re: QRP SSB: What's it like?
Message-ID: <853065898.63526.0@gqrpclub.demon.co.uk>

SSB on QRP is great fun, not as 'easy' as CW though (code being a more
efficient mode).
I have used an MFJ 9420 with great effect on 14 mhz, even working into PY
from here in UK. Probably the most interesting QSOs I have had on SSB is
from the car, using a home made whip and the ten watts from the MFJ. Quite
handy from a holiday location. I also have used a phone rig on holidays
from hotels and yes, quite good contacts, in fact what Tony says, SSB with
QRP is great fun - try it!

----------------72/3 de Frank G3YCC ---------------
GQRP CLUB 042
QRP WEB SITES: http://www.gqrpclub.demon.co.uk
 http://www.geocities.com/CapeCanaveral/5179

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: john andrews <jm165723@eee.org>
Subject: [8585] Re: Rat's Nest Eliminator
Message-ID: <32D839CA.5C78@eee.org>

Hi Gary;

I've given much thought to this.

1. Mine will be enclosed in a piece of old medical test equipment
   case. It has a "tilt-bail"(A metal leg that folds up to lift the
   front end for better visibility). Ten-Tec uses this scheme and
   you may be able to order it by part #. National Radio had a piece
   of metal that looked like a ruler that flipped out and supported
   the NC-155(????). Memory fails me but remember the basic idea.

2. AT-11 QRP tuner.

3. KC-2 Multi-function counter. As I mentioned in a previous post I
   will be using a RS-232 computer connector to connect to the rigs
   I plan to use. This would allow standardization of keyer/counter/
   wattmeter functions(Thanks to Bob for the RS-232 hint).

4. The specs on the KC-2 wattmeter are impressive but since I have
   a partial St Louis Tuner (Board and meters) may include it as well
   as it carries a built-in dummy load and designed for by-pass
   function.

5. The LM-338(?) 6 amp (this is the hefty version of the LM-317) would
   be a good choice for enough omph to run the whole of wax.

6. I ,also, would be interested in a Rat's Nest Eliminator. Include
   the Radio Shack DSP unit? ideas?

72, John- N5INZ

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: launerb@crl.com (William H. Launer)
Subject: [8591] Re: Rat's Nest Eliminator
Message-ID: <v01530508aefdfadbbdf9@[192.0.2.1]>

Come on, guys! A ham shack is always in transition, so don't tie
yourselves down to an expensive, custom-built installation (better
to spend the money and effort on radio equipment!).

But seriously, there are several things that will make life a lot
easier (and your shack neater):

1. Don't skimp on a regulated 12 vdc power supply - mine is homebrew,
   and current limits at 18 Amps.

2. Standardize on power connectors for your equipment, and then wire up
   a 12 vdc distribution system, so you can power up multiple pieces of

equipment simultaneously (you'll probably have to pay attention to filtering the power leads of some equipment, to prevent interaction).

3. Standardize on a common rf connector; this is wishful thinking in my case, because I hate PL-259's and I've got a mix of "boatanchors" and modern equipment. Anything new that I build will use BNC's.

My shack takes up an 8 ft. X 8 ft. corner of a basement room. I went to Sam's Club, and bought an "L"-shaped computer table arrangement that fits in the corner. I also got a comfortable swivel chair (important!). Years ago, I built a 5-shelf unit out of 3/4 in. plywood that accomodates common 19" equipment. We painted it so it would match the computer table, and put it at the short end of the "L" arrangement.

Currently, there are 2 Macintosh computers, a printer, a Yaesu FT-30 transceiver, key, and a 2 meter tcp/ip packet setup on the table. The one Mac (an old SE) is dedicated to the packet station. The computer keyboards are on shelves that slide under when not in use. Some of the pieces (tnc, vhf SWR/Wattmeter, Mac SE) are on a simple shelf that sits on the table over the FT-301 and the 2 meter transceiver.

The big power supply is on the bottom shelf of the rack, with the SB-401 transmitter, the SP-600 receiver,and speakers on other shelves. The antenna tuners and hf SWR/Wattmeter are sitting on top of the rack.

This is an operating area, not a building area. My workbench, test equipment, and equipment not in use is in another room in the basement.

This works for me. The important thing to remember is keep it flexible, your equipment will change about as often as the midwestern weather!

72/73 Bill wb0cld

Bill Launer
St. Charles, MO
launerb@crl.com
wb0cld@wb0cld.ampr.org [44.46.66.25]
qrp-l #279 qrp arci #3551
Grid Square EM48RT

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997

From: watkins <watkins@socketis.net>
Subject: [8628] Re: Small 24 Hour clocks
Message-ID: <32D915CE.362A@socketis.net>

Hi, Friends -

I have watched the discussion of 24 hour format clocks, and
would like to let you all know that my favorite shack clock
is now available, real cheap.

Made by Oregon Scientific, it has a 2 1/4 X 1 1/2 inch see-through
display (LCD? I don't know the exact tech description) which gives
time (24 hr, selectable) in 1/2 inch letters, as well as the date
(in my favorite 12/1/97 format) and also a small calendar for the
month in question, automatically updated for 200 years.

At a push of a button, it gives you another time zone. Mine displays
Zulu, (and also the date in Zulu, to avoid logging confusion) with
CST available at the button push. It has an alarm, and
also a thermometer (C or F) which notifies me how hot it gets under
my desk lamp, which is important since my cat sleeps there sometimes
and I wouldn't want to broil his meager brain. It has been accurate
and reliable so far, uses a G13 lithium button battery (1 year and
still ticking), and comes with adequate documentation.

On sale for $14.99 from Heartland America, 1 800 229 2901, shipping free,
Item number L1-8916. I paid 30 bucks, and never felt cheated at that
price. No financial interest blah blah blah...See you all on the radio.

73 de Daniel

```
 WW          WW   3333333     DDDDDDD     WW          WW
  W          W         33      DD    DD     W          W
  WW        WW       333      DD     DD    WW        WW
   W    W    W          33     DD     DD     W    W    W
   WW   W   WW           33     DD     DD     WW   W   WW
    W W  W W       3     33     DD    DD       W W  W W
    WW    WW        33333      DDDDDDD         WW    WW
```

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
Subject: [8635] Re: Small 24 Hour clocks
Message-ID: <Pine.GSO.3.95.970112130933.8038A-100000@destrier.acsu.buffalo.edu>

Sounds like a nice clock. I just ordered one 2 minutes ago. The price was
$14.99 + 4.95 S/h. Total $19.94.

I was surprised to find an "operator standing by" on Sunday. :-)

I was going to replace the 2 coin type batteries in my clock.....but this one sounded much nicer. Thanks for the info.

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
Life member ARRL
jskalski@acsu.Buffalo.EDU

On Sun, 12 Jan 1997, watkins wrote:

> Hi, Friends -
>
> I have watched the discussion of 24 hour format clocks, and
> would like to let you all know that my favorite shack clock
> is now available, real cheap.
>
> Made by Oregon Scientific, it has a 2 1/4 X 1 1/2 inch see-through
> display (LCD? I don't know the exact tech description) which gives
> time (24 hr, selectable) in 1/2 inch letters, as well as the date
> (in my favorite 12/1/97 format) and also a small calendar for the
> month in question, automatically updated for 200 years.
>
> At a push of a button, it gives you another time zone. Mine displays
> Zulu, (and also the date in Zulu, to avoid logging confusion) with
> CST available at the button push. It has an alarm, and
> also a thermometer (C or F) which notifies me how hot it gets under
> my desk lamp, which is important since my cat sleeps there sometimes
> and I wouldn't want to broil his meager brain. It has been accurate
> and reliable so far, uses a G13 lithium button battery (1 year and
> still ticking), and comes with adequate documentation.
>
> On sale for $14.99 from Heartland America, 1 800 229 2901, shipping free,
> Item number L1-8916. I paid 30 bucks, and never felt cheated at that
> price. No financial interest blah blah blah...See you all on the radio.
>
> 73 de Daniel
>
> WW   WW   3333333   DDDDDDD   WW   WW
>   W   W   33   DD   DD   W   W
>   WW   WW   333   DD   DD   WW   WW
>   W   W   W   33   DD   DD   W   W   W

```
>    WW  W  WW          33     DD     DD     WW  W  WW
>     W W W W      3    33     DD    DD       W W W W
>     WW   WW       33333      DDDDDDD        WW   WW
>
```

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: watkins <watkins@socketis.net>
Subject: [8651] Re: Small 24 Hour clocks
Message-ID: <32D97645.687@socketis.net>

Hi, Friends -

Earlier today I posted:

>I have watched the discussion of 24 hour format clocks, and
>would like to let you all know that my favorite shack clock
>is now available, real cheap.

>Made by Oregon Scientific,   *****SNIP*****
>On sale for $14.99 from Heartland America, 1 800 229 2901,
>shipping free, item number L1-8916.

One of our group ordered one, and reported being charged for shipping. Try mentioning catalog code L1C2-1012, in which the free shipping statement is made. I just ordered another for myself, and paid no shipping.

73 de Daniel Watkins

```
 WW          WW   3333333     DDDDDDD     WW          WW
  W          W         33     DD    DD     W          W
  WW        WW       333     DD     DD    WW        WW
   W   W    W          33     DD     DD     W   W    W
   WW  W  WW           33     DD     DD     WW  W  WW
    W W W W      3    33     DD    DD       W W W W
    WW   WW       33333      DDDDDDD        WW   WW
```

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
Subject: [8653] Re: Small 24 Hour clocks
Message-ID: <Pine.GSO.3.95.970112185126.21706A-100000@destrier.acsu.buffalo.edu>

Thanks for the update. I just called them back and made the correction and

will get the shipping included for $14.99. I had to get switched to the
supervisor to do it :-)

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
Life member ARRL
jskalski@acsu.Buffalo.EDU

On Sun, 12 Jan 1997, watkins wrote:

> Hi, Friends -
>
> Earlier today I posted:
>
> >I have watched the discussion of 24 hour format clocks, and
> >would like to let you all know that my favorite shack clock
> >is now available, real cheap.
>
> >Made by Oregon Scientific,   *****SNIP*****
> >On sale for $14.99 from Heartland America, 1 800 229 2901,
> >shipping free, item number L1-8916.
>
> One of our group ordered one, and reported being charged for
> shipping. Try mentioning catalog code L1C2-1012, in which the
> free shipping statement is made. I just ordered another for
> myself, and paid no shipping.
>
> 73 de Daniel Watkins
>
> WW   WW   3333333   DDDDDDD   WW   WW
>   W   W   33   DD   DD   W   W
>   WW   WW   333   DD   DD   WW   WW
>   W   W   W   33   DD   DD   W   W   W
>   WW W WW   33   DD   DD   WW W WW
>   W W W W   3   33   DD   DD   W W W W
>   WW   WW   33333   DDDDDDD   WW   WW
>

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: mykey@aztec.asu.edu (MICHAEL C. TODD)

Subject: [8597] Re: UTC the easy way
Message-ID: <9701120429.AA23869@aztec.asu.edu>

>On this subject of UTC: The popular Campmor mailorder catalogues sell a 29.99
>Timex Expedition wristwatch whose second timezone feature also includes a
>second date associated with the secondary timezone.
>
>Whenever any time is displayed on the watch screen, the primary or the
>secondary, the correct date is always there above it at the same time.

I bought a Casio model 871 DB-31 for about $25.00 (in fact I got 2 of them)
a couple of years ago at Service Merchandice. They do as above plus a
lot of other useful things. UTC is no problem,

W9UQB Mike Phoenix scQRPion

--

[B[C

From owner-qrp-l@Lehigh.EDU Sun Jan 12 18:03:24 1997
From: Pete Meier WK8S <pmeier@tir.com>
Subject: [8646] Re: waiting breathlessly for the 38 Special
Message-ID: <199701122103.QAA23172@tir.com>

I don't know about your Radio Shack but none around here carry the 78L05
regulator in the plastic package. I didn't see it in their catalog
either. I had to go to another source.

Pete WK8S